

Combustion Pressure Sensor (High Pressure Resistant)

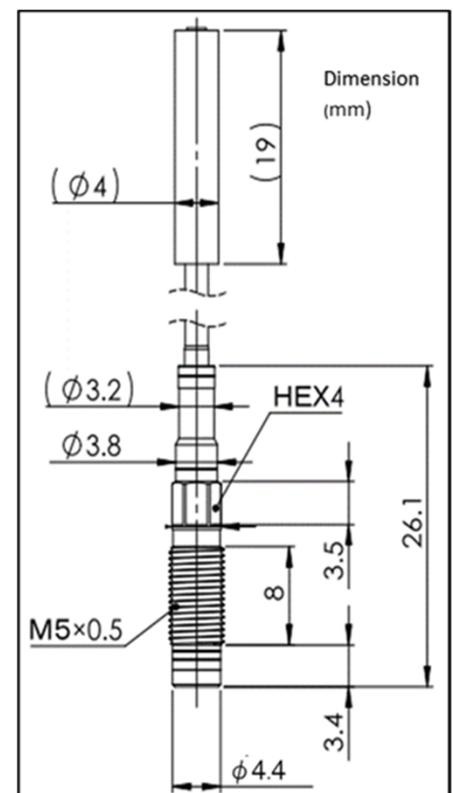
For measurement of new engine development

Features

1. Designed to measure high pressure (800 bar) while also achieving high sensitivity (-13 pC/bar).
2. It can be used for bench measurement of high performance vehicles, supercharged engines, etc
3. High pressure durability and high natural frequency realize the measurement of strong knocking.

Specification

Type	MCZ02
Measuring range	0~80MPa (0~800bar)
Sensitivity	-13pC/bar
Linearity	$\leq \pm 1.0\%$ ※1
Natural frequency	$\geq 110\text{KHz}$
Insulation resistance	$\geq 10^{13}\Omega$ ※1
Operating range	-40~400°C ※2
Thermal shock error	$\leq \pm 1.5\text{bar}$ ※3
Mounting dimensions	M5×0.5、HEX : 4 (mm)
Cooling	Non-cooling
Mounting torque	1.5Nm



※1.At normal temperature

※2.Temperature of pressure receiving surface

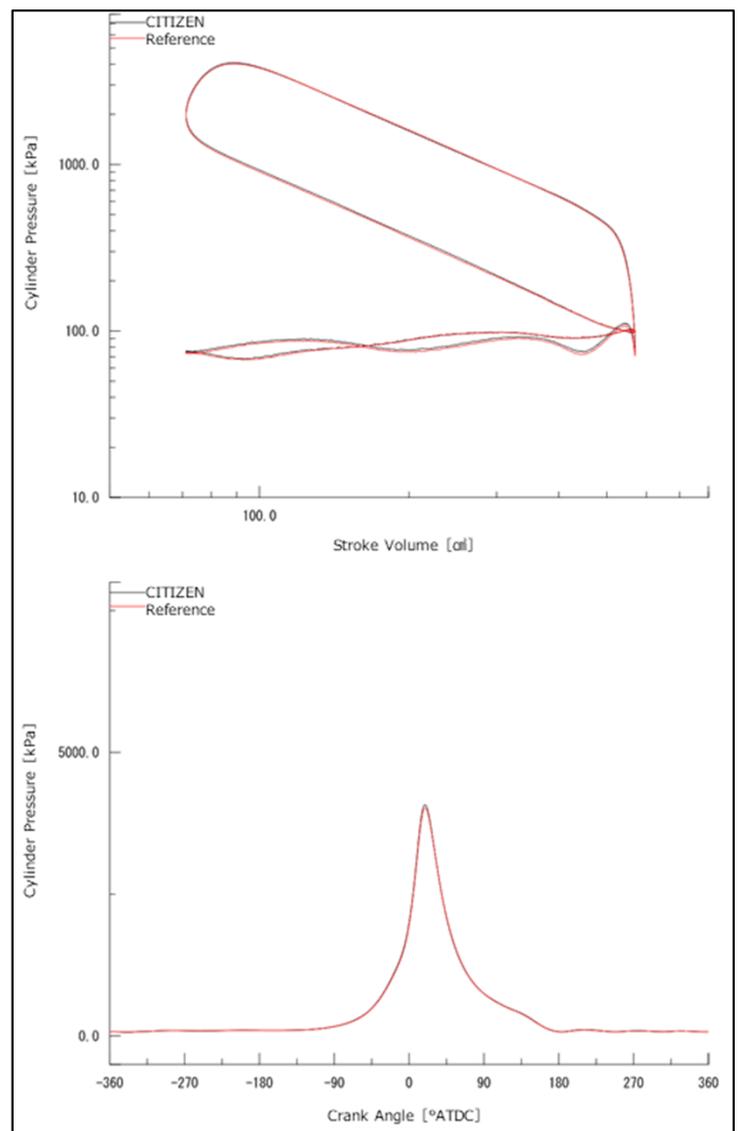
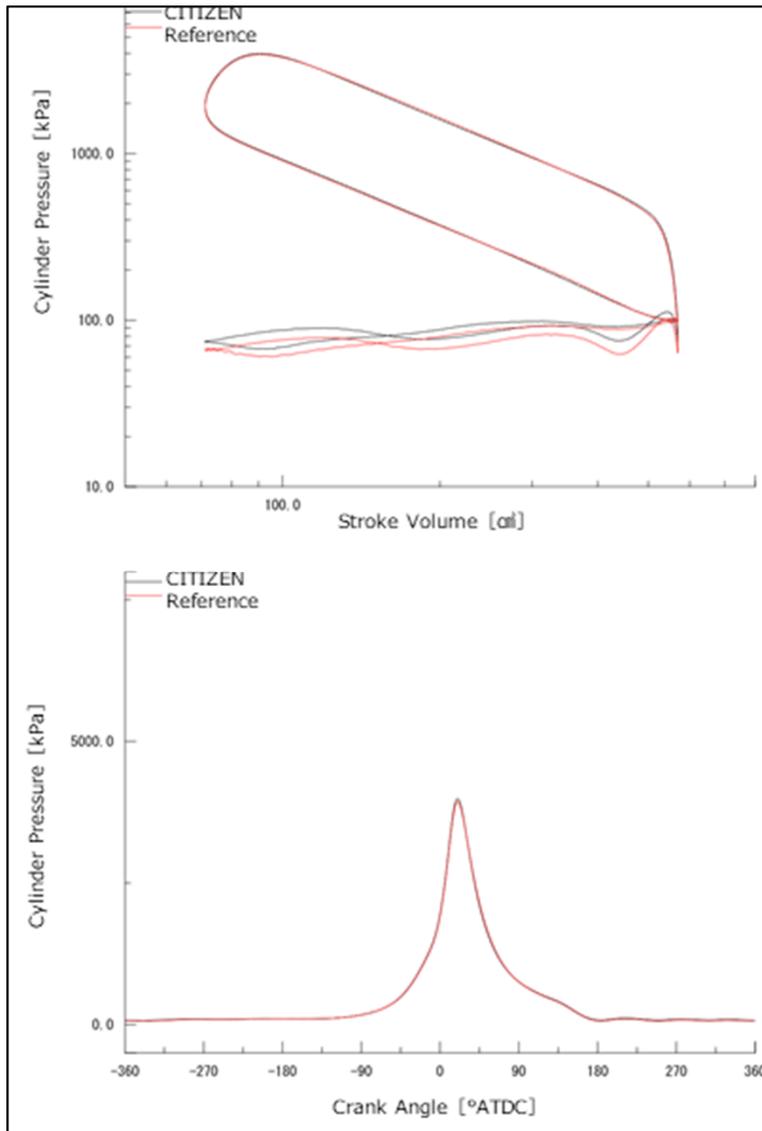
※3.Thermal shock error:1500rpm / IMEP:9bar

※ Recommend our mounting tools.

Combustion pressure sensor data

@2000rpm 180Nm 300Waveform Average
 *Reference sensor: Water-cooled sensor

@2000rpm 180Nm 300Waveform Average
 ※Reference sensor: Non-cooled sensor



Product specifications are subject to change without notice.